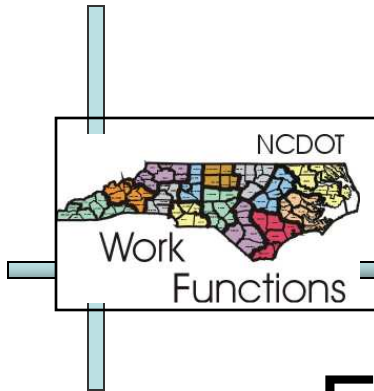


# Out with the Old and In with the New



## Formal Work Function Training

Traffic Engineering Conference

Matthew Whitley, PE

Total Expenditures by Work Function			
Fiscal Year 2007			
Maintenance Functions			
Fiscal Year	Work Function	Reported Qty	Cost
2007	6080-MISC SERV OR OPERATIONS (HR)	304998.00	\$64,967,786.39
2007	3607-ROADWAY EARTHWORK (HR)	331086.60	\$28,930,953.57
2007	3705-PAVEMENT WIDENING (TON)	1526281.55	\$28,187,971.32
2007	3712-MECHANICAL PATCHING (TON)	1495119.66	\$22,848,521.10
2007	3711-MANUAL PATCHING (TON)	1519808.67	\$20,782,609.24
2007	3612-RD BASE CNSTRN W/ABC (TON)	2630989.63	\$20,328,371.45
2007	3855-INSTLN OF PIPE CULVERTS (LFT)	5003318.20	\$19,994,129.22
2007	3715-FULL DEPTH PATCH HOT MIX (TON)	972689.38	\$18,976,662.24
2007	3773-MNTC OF HIGH & LOW SHLDR (LFT)	13324717.31	\$17,902,583.50
2007	4685-BRIDGE REPLACE W BRIDGE (SFT)	21427.57	\$16,680,792.16
2007	6040-CONSTR/MAINT OF FACILITY (HR)	312841.45	\$16,303,495.74
2007	3745-SNOW AND ICE CONTROL (HR)	283775.70	\$13,998,552.99
2007	3756-MACHINE CLEARING OF R-O-W (SHM)	1536070.30	\$13,014,969.39
2007	3774-MINOR MNTC OF DITCHES (LFT)	5647424.77	\$12,525,660.92
2007	3772-MAJ MNTC OF SHOULDERS (SHM)	5997610.83	\$12,130,316.06
2007	6090-PYMNT FOR MIN/MED INMATES (DOL)	12083130.25	\$12,083,130.25
2007	3761-REMOVAL OF HAZARDS (HR)	359144.75	\$11,996,952.10
2007	3835-STBL UNPVD RDS W/CMRL MAT (TON)	941035.84	\$11,027,667.36
2007	3605-CLEARING AND GRUBBING (HR)	156752.60	\$10,703,126.21
2007	4101-LONGLINES PAINTED (LFT)	190294596.05	\$10,071,767.62
2007	4325-SEEDING AND MULCHING (ACR)	1992798.18	\$9,751,711.07
2007	3662-SPLIT SEAL W/SCREENINGS (SYD)	8079066.68	\$9,681,408.02
2007	3751-ROUTINE MOWING (SHM)	143737.56	\$9,207,819.76
2007	4682-CONST METAL CULVERTS (LFT)	1254178.13	\$8,874,457.03
2007	3664-SPLIT SEAL W/LT WT AGG (SYD)	6671588.16	\$8,653,524.73

Page 1 of 6  
6/18/2008

#1

#11

Report Setup Report Design Summary

**3711 - Manual Patching****FY - 2006****Selected Mnt. Yards**Page 1 of 1  
1/22/2007

Road Owner	Fiscal Year	Work Function	Cost	Reported Qty	Unit Cost 1
04 /1 Edgecombe Mnt	2006	3711-MANUAL PATCHING (TON)	\$319,114.44	245551.41	\$1.30
04 /3 Wayne Mnt	2006	3711-MANUAL PATCHING (TON)	\$263,379.69	3848.66	\$68.42
10 /1 Stanly Maint	2006	3711-MANUAL PATCHING (TON)	\$197,490.83	782.54	\$252.37
04 /2 Nash Mnt	2006	3711-MANUAL PATCHING (TON)	\$200,680.45	766.51	\$261.81
10 /3 Union Maint	2006	3711-MANUAL PATCHING (TON)	\$568,146.14	1951.24	\$291.17
10 /3 Anson Maint	2006	3711-MANUAL PATCHING (TON)	\$285,966.74	979.08	\$292.08
04 /1 Halifax Mnt	2006	3711-MANUAL PATCHING (TON)	\$443,870.10	1474.18	\$301.10
10 /2 Meck Rollup	2006	3711-MANUAL PATCHING (TON)	\$691,416.51	2127.58	\$324.98
04 /3 Johnston Mnt	2006	3711-MANUAL PATCHING (TON)	\$505,728.50	1538.33	\$328.75
10 /1 Cabarrus Maint	2006	3711-MANUAL PATCHING (TON)	\$312,160.59	921.78	\$338.85
04 /2 Wilson Mnt	2006	3711-MANUAL PATCHING (TON)	\$307,253.30	488.74	\$628.66

\$1.30

\$628.66



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY  
GOVERNOR

LYNDO TIPPETT  
SECRETARY

October 29, 2007

MEMORANDUM

TO: Division Engineers

FROM: W. S. Varnedoe, PE  
Chief Engineer – Operations

SUBJECT: Revised Work Functions

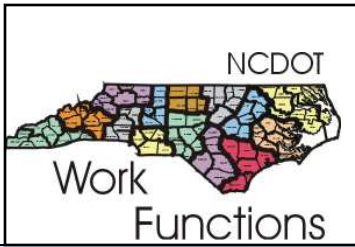
Attached is the final list of revised work functions, revised descriptions and crosswalk information to the old work functions. The revised work functions are effective immediately and have been installed in SAP-R3 and MMS. From this point forward all of your operations and planning will utilize these work functions. The old work functions will be available for a short time, only for the purpose of closing out contracts and MMS tasks. Any work functions that are not listed have not changed and will continue to be available.

During the first two weeks of November, the State Road Maintenance Unit is available to give an overview presentation on the revised work functions to your division staff. Sometime in January, a formal, in-depth, training will be conducted for all individuals that utilize work functions.

If you need additional information or have questions, you may contact Lonnie Watkins or Matthew Whitley at 919.733.3725.

Attachment

cc: Lacy Love, P.E.,  
Bill Rosser, P.E.  
Jon Nance, P.E.  
Operations Unit Heads  
Division Maintenance Engineers  
Division Operations Engineers



# Work Function Revision

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## Field Operations

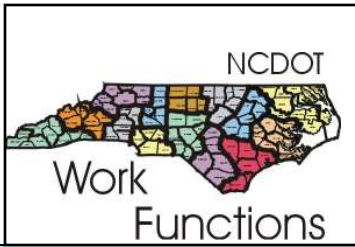
### Old Work Functions

- Maintenance - 120
- Bridge - 117
- Traffic - 87
- Roadside - 33
- Bituminous - 32
- **SUM - 389**

### New Work Functions

- Maintenance - 20
- Bridge - 38
- Traffic - 28
- Roadside - 13
- Pavement - 13
- **SUM - 112**

**\*\*Does not include Miscellaneous\*\***



# Work Function Basics

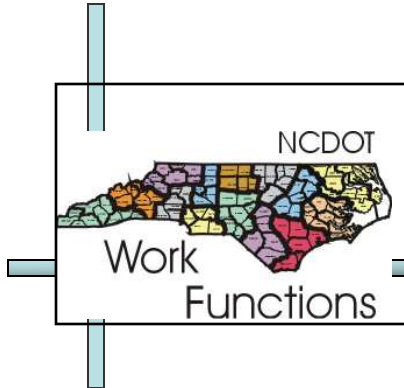
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## **Flip Book is separated in the following:**

General Breakdown is as follow:

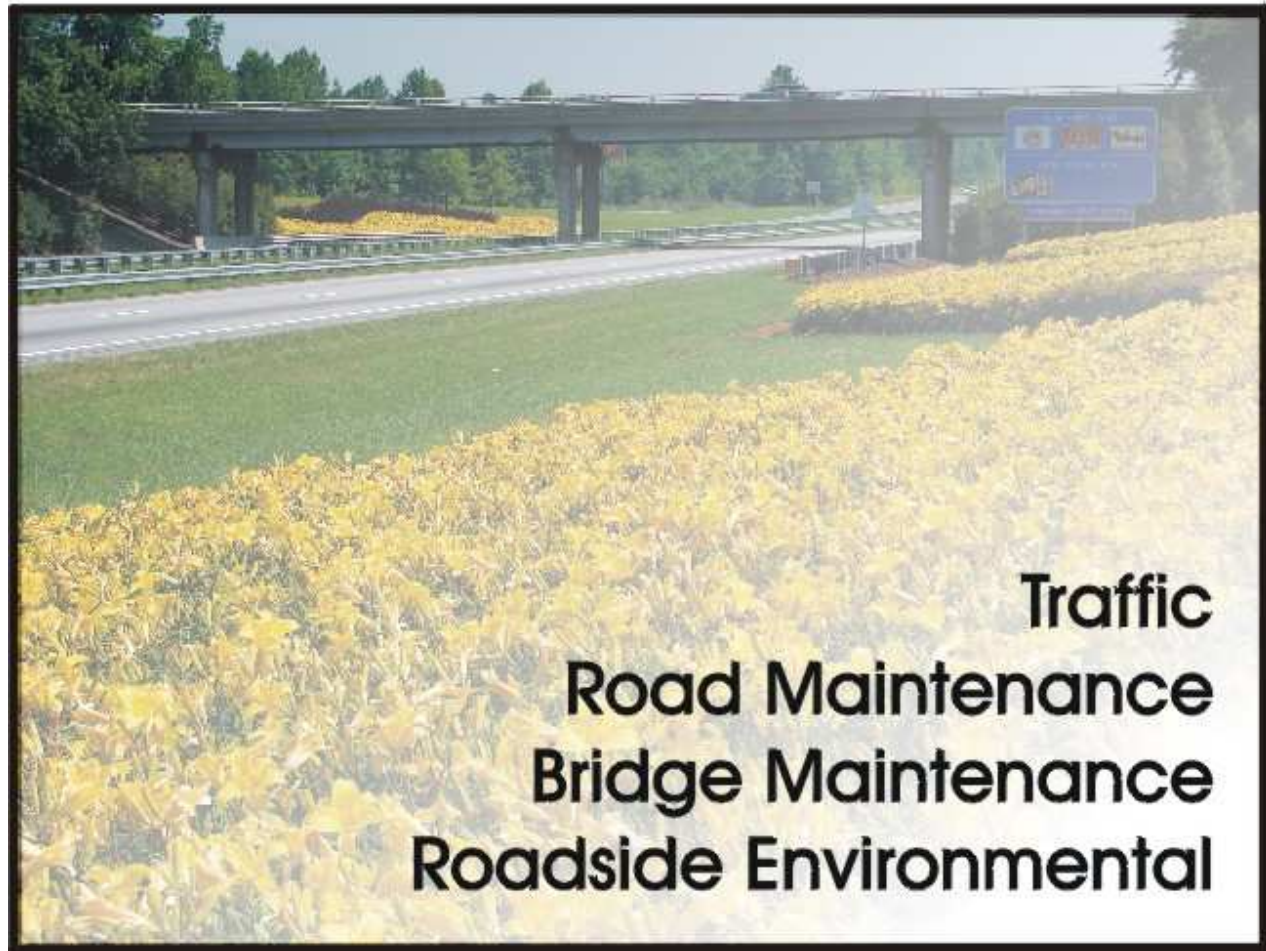
- 2700 & 6000 Miscellaneous (Used by all Units)
- 2800 Pavement
- 2900 Roadside
- 3100 Maintenance
- 3200 Traffic
- 3300 Bridge

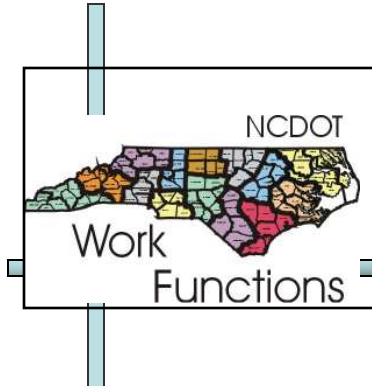
Various work functions in 2800 – 3300 may be used by all departments



# Work Function Flip Books

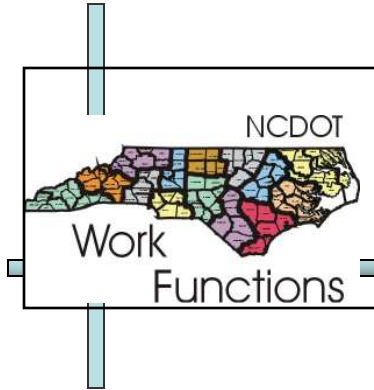
## NCDOT - Work Functions





# Work Function Flip Books

TRAFFIC		3232
<b>Work Function:</b>	3232 – INSTALL/ REPLACE PAVEMENT MARKERS	
<b>Work Description:</b>	The installation, repair, and replacement of all retroreflective raised or recessed pavement, markers, lens, or castings.	
<b>Unit of Measure:</b>	EA – Each	
<b>Calculations:</b>		
<b>Remarks:</b>	MMS task should be created	
		TRAFFIC

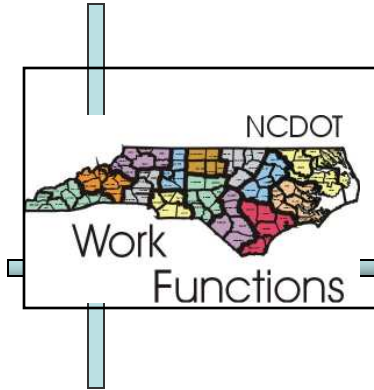


# 3224 – Pavement Marking Removal

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**New Function: 3224 – Pavement Marking Removal (LFT):**  
**The removal and disposal of any existing pavement marking material**

**Old Function: 4116 Pavement Marking Removal (LFT):** The removal of centerlines, edgelines, lanelines, barrier lines, or miscellaneous pavement markings and messages to include painted and plastic markings.



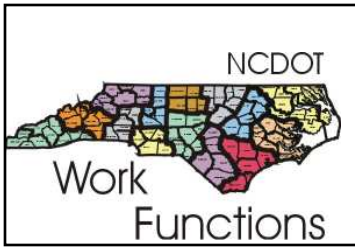
# 3220 – Preline

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3220 - Preline (LFT): All costs associated with a prelining operation.

Linear Feet of What?

- How are you measuring this?
  - Linear Feet of Road
  - Linear Feet of Stripe



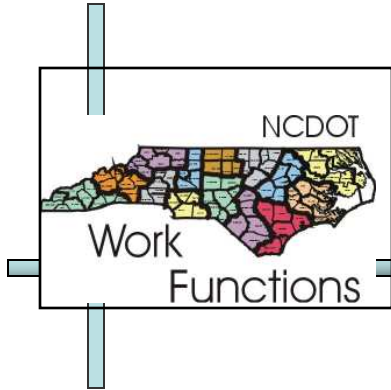
# Modified Traffic Functions

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Sign Work Functions - 3250, 3252, 3254, 3256


- Does not include daytime or nighttime surveillance inspection
- Charge surveillance, inspection, nighttime sign survey to 2714 - Assessments and Inspections

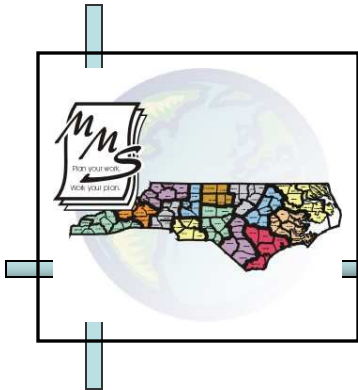




## 3244-Temporary Traffic Control

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- Description: The installation, maintenance and repair of temporary detour signs, barricades, drums, cones, arrow boards, and portable message signs for scheduled detours and road closures.
- 
- A rectangular orange sign with a blue border. The word "DETOUR" is written in large, bold, black capital letters at the top. Below the text is a large, black, right-pointing arrow.
- All temporary traffic control (detours, lane closures, etc.) associated with any work activity is incidental to the work function being performed.



# Contact Information

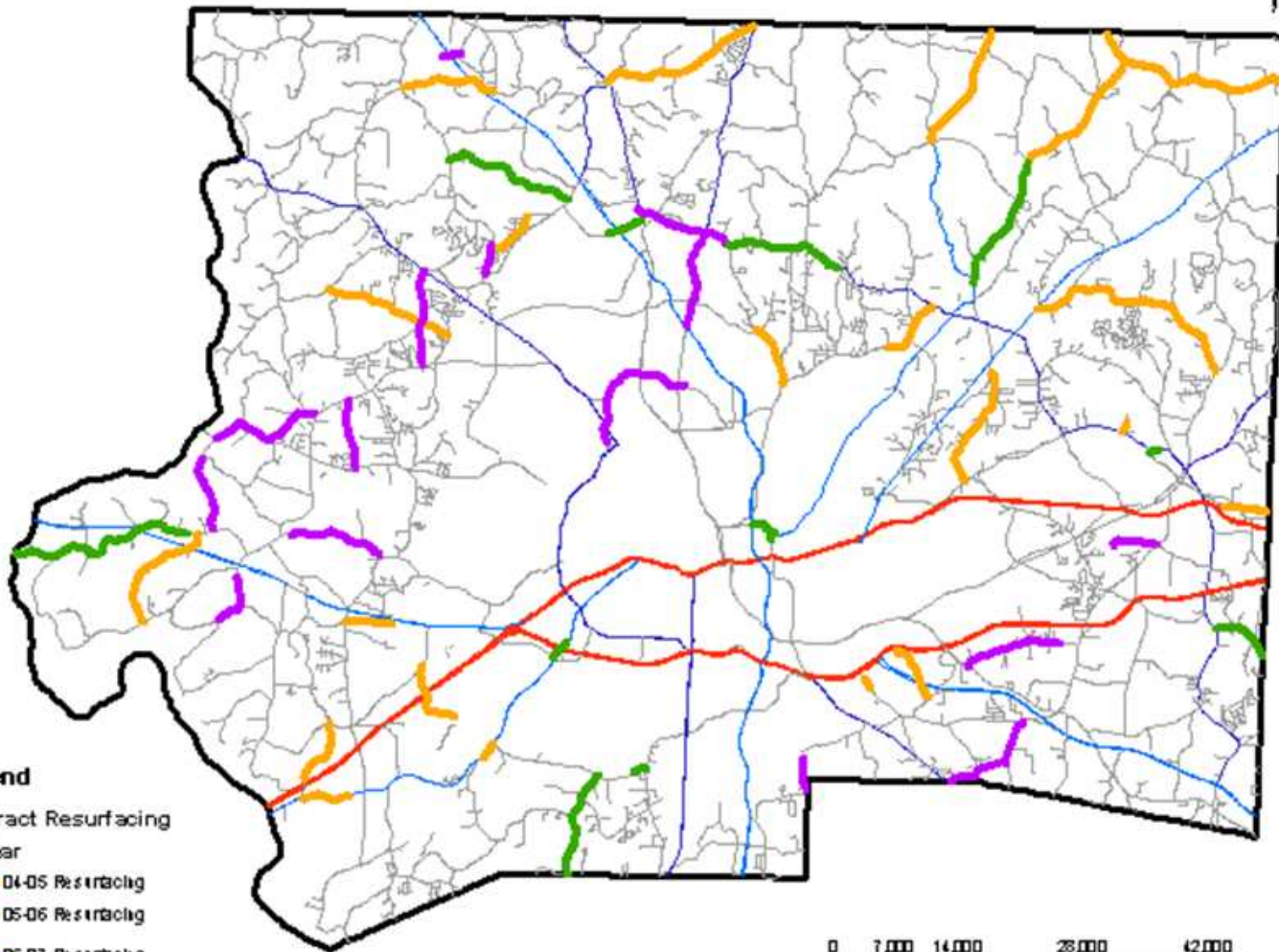
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For questions regarding Work Functions contact  
Lonnie Watkins or Matthew Whitley at (919) 733-  
3725



# Forsyth County



## Legend

Contract Resurfacing  
By Year

- 04-05 Resurfacing
- 05-06 Resurfacing
- 06-07 Resurfacing

0 7,000 14,000 28,000 42,000 56,000 feet